

Appl. No. 09/843,630
Response to Final Office Action dated November 1, 2005
Amendment dated April 3, 2006

REMARKS

In response to the Examiner's final office action dated November 1, 2005, Applicant hereby presents a Request for a Continued Examination so that the Examiner may consider the claims as modified herein. More specifically, Applicant has modified the independent claims to specify that the side of the chip members opposite the side at which the electrodes are located which has been grinded to a common level is secured to a dicing sheet. Advantageously, the specified structure enables the manufacture of electrical connection structures such as solder balls to be formed exclusively on non-defective semiconductor chips. This desirably decreases the manufacturing costs because defective chips are not processed to the point at which electrical interconnection structures are formed.

Applicant respectfully submits that the prior art references of record, whether considered alone, or in combination, fail to either teach or suggest Applicant's presently claimed invention. More specifically, Applicant notes that the reference upon which the Examiner had relied in rejecting the claims under 35 USC section 102 is actually directed to a much different technology. More specifically, the cited reference, United States patent number 5,841,193 is actually directed to a technique for manufacturing a multi-chip module wherein the various semiconductor chips are interconnected. This is in sharp contrast with the present invention wherein the intermediate structure is secured to a dicing sheet so that the individual chips may be separated from the pseudo-wafer.

For example, the abstract of this reference notes that the multichip module comprises a plurality of chips affixed in a planar array by a structural material which surrounds the sides of the chips such that the upper surfaces of the chips and an upper surface of the structural material are co-planar and the lower surface of at least one chip and a lower surface of the

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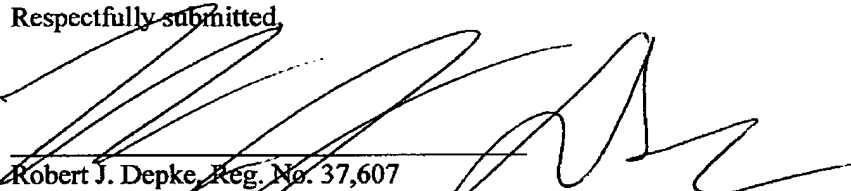
structural material are co-planar. A photo-patternable dielectric is disposed directly on the upper surfaces of the chips. The photo-patternable dielectric includes vias to at least some contact pads at the upper surfaces of the chips and the module further comprises an intrachip metallization layer on the photo-patternable dielectric layer. Subsequent processing provides a multi-layer chip interconnect structure over the intrachip metallization layer and photo-patternable dielectric. Testing and repair of the module can be accomplished prior to or subsequent to fabrication of the multi-layer chip interconnect. Formation of multiple single chip modules is accomplished by singulating the multichip module into individual packages.

In light of the foregoing, Applicant respectfully submits that there is no teaching or suggestion in the cited reference concerning the use of a dicing sheet as now specified in the claims. Accordingly, in light of the foregoing, Applicant respectfully submits that all claims now stand in a condition for allowance.

Respectfully submitted,

Date:

4/3/06


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